

ABSTRACT OF THE DISCLOSURE

Determining RF capacity of a wireless network and measuring BTS performance.

Preferred methods include collecting forward link data at a BTS transmit port, where the data includes the power level associated with each Walsh code of each sector for each carrier over a
5 predetermined time interval, and then processing the data by identifying each channel as using either second generation CDMA technology (a “2G” call) or third-generation technology (a “3G” call). Voice and data may also be identified. The power level may be determined by measuring a signal level (e.g., dB), and subsequently accounting for any RF losses through a calibration step, and finally converting the power-per-Walsh code to an absolute power level (e.g., dBm, or
10 watts). The average user power per link (ppl) is then determined and the number of users per technology (2G versus 3G) is also determined.